

Neurogranin Polyclonal Antibody

Catalog number: 10440-1-AP

Size: 79 µg/150 µl

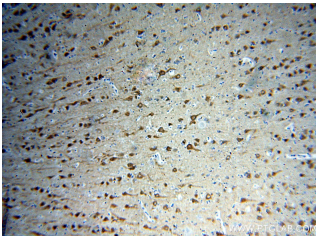
Source: Rabbit

Isotype: IgG

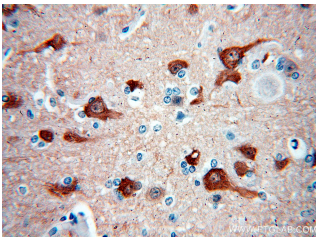
Synonyms:

NRGN; hng, Neurogranin, Ng,

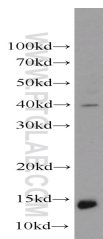
NRGN, P17, RC3



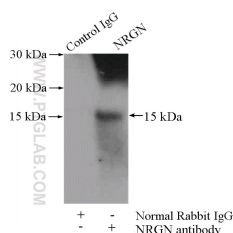
Immunohistochemical of paraffin-embedded human brain using 10440-1-AP (NRGN antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human brain using 10440-1-AP (NRGN antibody) at dilution of 1:50 (under 40x lens)



mouse brain tissue were subjected to SDS PAGE followed by western blot with 10440-1-AP (NRGN antibody) at dilution of 1:1000



IP Result of anti-NRGN

(IP:10440-1-AP, 4µg;

Background

Neurogranin (formerly designated p17, also known as Ng, RC3 and BICKS) belongs to the neurogranin family. It is a neuron-specific substrate for protein kinase C (PKC). It is a postsynaptic protein that is highly enriched in brain, with restricted expression in the cortex, striatum, hippocampus, thalamus, hypothalamus and olfactory bulb nuclei. Neurogranin binds calmodulin at low levels of calcium, thereby regulating calmodulin-dependent nitric oxide synthase. Neurogranin acts as a "third messenger" substrate of protein kinase C-mediated molecular cascades during synaptic development and remodeling. It binds to calmodulin in the absence of calcium. The observed molecular weight of human NRGN by Western blotting is about 15-17 kDa.

Applications

| | |
|----------------------------|--|
| Tested applications: | ELISA, WB, IHC, IP |
| Species specificity: | Human, Mouse, Rat; other species not tested. |
| Calculated Neurogranin MW: | 7.6 kDa |
| Observed Neurogranin MW: | 15kd |
| Positive WB detected in | Mouse brain tissue |
| Positive IP detected in | Mouse brain tissue |
| Positive IHC detected in | Human brain tissue, human kidney tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human spleen tissue, human testis tissue |
| Recommended dilution: | WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

| | |
|---------------------------|---|
| Immunogen: | Ag0676 |
| GenBank accession number: | BC002835 |
| Gene ID (NCBI): | 4900 |
| Full name: | Neurogranin (protein kinase C substrate, RC3) |

Product information

| | |
|----------------------|---|
| Purification method: | Antigen affinity purification |
| Storage: | PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |

Detection:10440-1-AP 1:1000)
with mouse brain tissue lysate
2640ug.